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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,387	08/09/2005	Robin John Batterham	4623-045790	4715
28289 7590 01/25/2008 THE WEBB LAW FIRM, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITTSBURGH, PA 15219		8	EXAMINER	
			ZHU, WEIPING	
			ART UNIT	PAPER NUMBER
	,	_	1793	
		·	, MAIL DATE	DELIVERY MODE
			01/25/2008	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/516,387	BATTERHAM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Weiping Zhu	1793				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ja	nuary 2008.					
,	,—					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) <u>15-18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ite				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/13/2006. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

The application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.4999, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted

- I. Claims 1-14, drawn to a method of leaching a metal value form a heap of a metal-containing ore..
 - II. Claims 15-18, drawn to a heap leaching operation.

The inventions listed as I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature in all groups is the heap leaching method. This element cannot be a special technical feature under PCT Rules 13.2 because the element is shown in the prior art. Brown (US 4,960,584) discloses a heap leaching method (abstract), which is substantially identical to the claimed heap leaching method. Inventions I-II lack the same or corresponding special technical features. Therefore unity of invention is lacking and restriction is appropriate.

During a telephone conversation with Mr. Richard L. Byrne on January 14, 2008 a provisional election was made with traverse to prosecute the invention of I, claims 1-14. Affirmation of this election must be made by the applicant in replying to this Office

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action. Claims 15-18 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should the applicant traverse on the ground that the inventions are not patentably distinct, the applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

The applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Brown (US 4,960,584).

With respect to claims 1 and 2, Brown ('584) discloses a method of leaching a metal value form a heap of crushed metal-laden ore comprising (abstract, Figures 1-3 and col. 4, lines 52-64):

establishing a downward flow of a leaching solution (i.e. the leach liquor as claimed) through a section of the heap by supplying the leaching solution onto a top surface of the section to establish a plug flow of the leaching solution through the section of the heap and allowing the leaching solution containing metal values to drain from a lower part of the section; and

supplying the leaching solution onto the top surface of the section at a flow rate that is sufficient to maintain the plug flow of the leaching solution so that the downwardly flowing leaching solution constantly saturates the section of the heap.

With respect to claim 3, Brown ('584) discloses that the leaching solution will typically be distributed in a generally umbrella-shaped pattern (i.e. a flowing curtain as claimed), with the adjacent patterns overlapping (i.e. extending across the top surface as claimed) (col. 3, lines 51-54) and the curtain is moved along the length of the section of the heap in a series of steps (col. 4, lines 52-64 and Figures 1-3).

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With respect to claim 4, Brown ('584) discloses that the curtain is continuous across the top surface of the heap (col. 4, lines 52-64 and Figures 1-3).

With respect to claim 12, Brown ('584) discloses that the leaching solution is supplied via a distributor that can be moved over the surface of the heap (col. 4, lines 52-64 and Figures 1-3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 5-11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown ('584).

The teaching of Brown ('584) has been discussed in the paragraph above.

With respect to claims 5-7, Brown ('584) discloses that the flow rate is in the range of 0.05 to 1.5 gph/ft² (i.e. 2 to 61 l/hr/m²), which overlaps the claimed range. A prima facie case of obviousness exists. See MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the claimed range within the disclosed range of Brown ('584) with expected success, because Brown ('584) discloses the same utility over the entire disclosed range.

With respect to claims 8-11, Brown ('584) discloses that the contact time ranges from four hours to sixty days (col. 4, line 65 to col. 5, line 13). The 4 hours of contact

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time is close to the claimed time range. A prima facie case of obviousness exists. See MPEP 2144.05 I.

With respect to claims 13 and 14, Brown ('584) discloses that the metal-laden ore is deposited on an impervious pad in the form of one or more plastic sheets 13 (i.e. the barrier as claimed) (col. 2, lines 49-55 and Figure 1), which prevents any run-off of the leaching solution and obviously reads on the claimed features.

Conclusion

4. This Office action is made non-final. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WZ

1/18/2008

ROY KING: SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700